AMENDMENTS

In the Claims:

- (Currently amended) A solid chelating resin comprising:

 a reactive hydrophobic backbone having derived from one or more reactive chemical groups; and
 - pendent carbodithioic groups,
 wherein said resin contains no tertiary nitrogen amine groups.
- 2. (Original) The resin of Claim 1 wherein said hydrophobic backbone is nucleophilic.
- 3. (Original) The resin of Claim 1 wherein said resin is a poly(dithiocarbamate).
- 4. (Canceled)
- 5. (Previously presented) The resin of Claim 1 further comprising a cross-linking reagent reacted onto reactive sites of said hydrophobic backbone.
- (Original) The resin of Claim 5 wherein said cross-linking reagent reacts to form an alkylene, amine, ether, phosphine, sulfide, amide, urea, urethane, phosphoamidate, or thioamidate linkage.
- 7. (Previously presented) The resin of Claim 5 wherein said cross-linking reagent is selected from the group consisting of 4,4'-methylenebis (phenyl isocyanate) (MDI), polymethylene polyphenyl isocyanate (PAPI), tolylene 2,4, diisocyanate (TDI), isophorone diisocyanate (IPDI), terephthalic acid, adipic acid, and mixtures thereof.
- 8. (Previously presented) The resin of Claim 2 wherein said nucleophilic backbone comprises a C, N, O, P, S, or mixtures thereof.

- 9. (Previously presented) The resin of Claim 1 wherein said one or more reactive chemical groups comprises a diamine, multiamine or a diol.
- 10. (Currently amended) The resin of Claim 9 wherein said one or more reactive chemical groups comprises hexamethylenediamine (HMDA), diethylenetriamine (DETA), triethyleneteriamine (TETA), tetraethylenepentamine (PETA), or a mixture thereof.
- 11. (Previously presented) A process for producing a chelating resin comprising: reacting a nucleophilic compound with carbon disulfide in a solvent, to form a carbodithioic acid;

neutralizing said carbodithioic acid with a base to form a carbodithioic acid salt; and reacting reactive sites on said carbodithioic acid salt with a crosslinking reagent in a solvent to form a solid chelating resin.

- 12. (Original) The process of claim 11 wherein said chelating resin comprises a (poly)dithiocarbamate resin.
- 13. (Original) The process of claim 11 wherein said nucleophilic compound comprises an amine.
- 14. (Original) The process of claim 13 wherein said amine comprises a polyamine.
- 15. (Original) The process of claim 14 wherein said polyamine comprises polyethyleneimine polyamine.
- 16. (Previously presented) The process of claim 11 wherein the molar ratio of carbon disulfide to reactive nucleophilic sites is from 0.1:1.0 to 0.9:1.0.
- 17. (Previously presented) The process of claim 16 wherein the molar ratio of carbon disulfide to reactive nucleophilic sites is from 0.3:1.0 to 0.7:1.0.

- 18. (Previously presented) The process of claim 11, wherein said nucleophilic reaction occurs at a pH of from 7.0 to 13.0.
- 19. (Original) A process for removing contaminants from an effluent stream by contacting the effluent stream with the chelating resins of claim 1.
- 20. (Original) The process of claim 19 wherein said chelating resin is contained in a cylinder, a filter, a flow-through packet, or a cartridge.
- 21. (Original) A solid chelating composition comprising the solid chelating resin of claim 1 and at least one inert filler.
- 22. (Previously presented) The composition of claim 21, wherein the weight ratio of filler to resin is from 0.10:1.0 to 0.90:1.0.
- 23. (Previously presented) The composition of claim 22, wherein the weight ratio of filler to resin is from 0.30:1.0 to 0.70:1.0.